ARIZONA DEPARTMENT OF WATER RESOURCES

Application No. _____ **Filed** _____
(Applicant shall not fill in above blanks)

JANICE K. BREWER
Governor

HERB GUENTHER
Director

APPLICATION for APPROVAL of the PLANS and SPECIFICATIONS for the CONSTRUCTION, ENLARGEMENT, REPAIR, ALTERATION or REMOVAL of a DAM and RESERVOIR (A.R.S. 45-1203 & 1206)

This application is for the _____ of the _____ Dam.
(Construction, Enlargement, Repair, etc.) (Name of Dam)

LOCATION OF DAM

This dam is in _____ County, in the _____ 1/4, Sec. _____, Twp. _____, Rge. _____, G&SR B&M, at North Latitude _____E, _____', _____" and West Longitude _____E, _____', _____", on USGS Quad _____, and is located on _____, tributary to _____.
(Wash, Creek, River or Watershed) (Wash, Creek or River)

OWNER

Name: _____ Telephone: _____

Mailing Address: _____

If this application is for construction of a new dam complete all items (1 through 21) except item 12. For enlargement, repair, alteration or removal complete items 12 through 21 and those other items where a change is being made.

DESCRIPTION OF DAM AND RESERVOIR

1. Type of dam _____. Purpose of dam _____.
(Earth, Rock, Concrete Gravity, etc.)

2. Dam crest elevation _____ feet. Spillway crest elev. _____ feet. Outlet invert elev. _____ feet.

3. Dam height is _____ feet (Measured from the lowest elevation of the outside limit of the dam at its intersection with the natural ground surface to the crest of the spillway – A.A.C. R12-15-1202(17)).

4. Dam crest length _____ feet. Dam crest width _____ feet. Dam Crest Camber (if any) _____ feet.

5. Dam slope: Upstream _____ : 1 (horizontal:vertical); Downstream _____ : 1 (horizontal:vertical).

6. Emergency Spillway (type, dimensions, control(s), design capacity, flow depth, etc.):

7. Outlet Works (type, internal diameter, dimensions, control(s), capacity, trashrack, energy dissipator):

8. Reservoir at spillway crest elevation: Storage capacity _____ acre-feet; Surface area _____ acres.
   Reservoir at dam crest elevation: Storage capacity _____ acre-feet; Surface area _____ acres.

HYDROLOGIC DATA

9. Drainage area _____ square miles. Names of upstream dams _____

10. Downstream Hazard: _____
(Nearest downstream town, population, distance, other inhabitants or development, and Downstream Hazard Potential Classification per A.A.C. R12-15-1206)

11. Inflow design flood: _____. Duration _____ hours. Precipitation _____ inches.
(100-year, 0.25 PMF, 0.5 PMF, 0.75PMF, PMF)

Peak inflow rate _____ cfs. Water surface elevation is _____ feet at the time of the maximum emergency spillway discharge of _____ cfs during routing of the Inflow Design Flood.

GENERAL INFORMATION

12. Description of Work (enlargement, repair, alteration, etc.):

13. Type of stored water: _____. Use of stored water: _____.
(surface, groundwater, effluent, etc.)

Existing water rights claims/filings associated with water to be stored:
Has primary storage permit application been made? _____ Yes _____ No

14. Other federal, state or local permits (to be) applied for; Give details, include date(s):

15. Describe provisions to divert flood flows during construction; include frequency (years) and flow rate (cfs):

16. Construction is expected to begin _____. Estimated completion _____.
(Month and Year) (Month and Year)

17. Estimated cost of dam, reservoir and appurtenances (ARS 45-1204): _____

18. Fees accompanying this application (fees based on cost; R12-15-104.A.7): _____

19. Investigations, design, drawings and specifications prepared by (identify firm and Engineer of Record; attach resume highlighting dam design experience):

20. Construction Quality Assurance & Quality Control to be performed by (identify firm, Site Engineer, and Engineer of Record; attach resume(s) highlighting dam construction experience):

21. Emergency Action Plan prepared by: _____

Application submitted by (Name): _____ Telephone: _____ Date: _____

Signature: _____ Legal Capacity If Other Than Owner: _____

Mailing Address: _____

APPROVAL OF APPLICATION No. _____

This is to certify that Application No. _____, including the drawings and specifications for _____ Dam and Reservoir has been examined and the same is hereby approved, subject to the following terms and limitations:

1. Construction work shall be started within one (1) year from date of application approval.

2. No foundations or abutments shall be covered by the material of the dam until the Department has been given an opportunity to inspect and approve the same.

Dated this _____ day of _____, 20_____.

Michael J. Johnson, Ph.D., P.E.
Assistant Director & Chief Engineer
Surface Water Division